

DERWENT-ACC-NO: 1999-046223

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TITLE: Displaying Internet content and TV programming -  
includes querying client of available data stream  
connections to determine most efficient delivery of  
different types of data through all available connections

INVENTOR: HSU, R P; NAKANO, H ; NIIJIMA, M ; ROSIN, R ; SONODA, Y ;  
HSU, P R

PATENT-ASSIGNEE: SONY ELECTRONICS INC[SONY] , SONY  
CORP[SONY], SONY  
ELECTRONICS[SONY]

PRIORITY-DATA: 1997US-0867613 (June 2, 1997) , 1997US-0867264 (June 2,  
1997)  
, 1997US-0867266 (June 2, 1997) , 1997US-0867279 (June 2, 1997)  
, 1997US-0867543 (June 2, 1997) , 2000US-0541248 (April 3, 2000)  
, 2000US-0498191 (February 4, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
TW 497043 A	August 1, 2002	N/A	000 G06F 015/62
WO 9856188 A2	December 10, 1998	E	054 H04N
007/173			
AU 9874467 A	December 21, 1998	N/A	000 N/A
US 6028600 A	February 22, 2000	N/A	000 H04N
007/14			
EP 986901 A2	March 22, 2000	E	000 H04N 005/445
US 6072483 A	June 6, 2000	N/A	000 G06F 003/14
US 6195692 B1	February 27, 2001	N/A	000 H04N
007/01			
US 6260192 B1	July 10, 2001	N/A	000 H04N 007/173
US 6295057 B1	September 25, 2001	N/A	000 G06F
003/14			
EP 1143731 A1	October 10, 2001	E	000 H04N

007/173				
JP 2002507344 W	March 5, 2002	N/A	073	H04N
007/173				
US 6397387 B1	May 28, 2002	N/A	000	H04N 007/10
US 6411307 B1	June 25, 2002	N/A	000	G06F 007/00
EP 986901 B1	September 18, 2002	E	000	H04N
005/445				
DE 69808080 E	October 24, 2002	N/A	000	H04N
005/445				

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ  
DE DK EE ES FI  
GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV  
MD MG MK MN  
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN  
YU ZW AT BE  
CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT  
SD SE SZ UG  
ZW AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE AT BE CH  
DE DK ES FI  
FR GB GR IE IT LI LU MC NL PT SE AT BE CH DE DK ES FI FR GB GR IE IT  
LI LU MC  
NL PT SE

CITED-DOCUMENTS: No-SR.Pub

# APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
TW 497043A	N/A	1998TW-0108652	September 21, 1998
WO 9856188A2	N/A	1998WO-IB00895	June 2, 1998
AU 9874467A	N/A	1998AU-0074467	June 2, 1998
AU 9874467A	Based on	WO 9856188	N/A
US 6028600A	N/A	1997US-0867279	June 2, 1997
EP 986901A2	N/A	1998EP-0921699	June 2, 1998
EP 986901A2	N/A	1998WO-IB00895	June 2, 1998
EP 986901A2	Based on	WO 9856188	N/A
US 6072483A	N/A	1997US-0867543	June 2, 1997
US 6195692B1	N/A	1997US-0867264	June 2, 1997
US 6260192B1	N/A	1997US-0867613	June 2, 1997
US 6295057B1	Cont of	1997US-0867543	June 2, 1997
US 6295057B1	N/A	2000US-0541248	April 3, 2000
US 6295057B1	Cont of	US 6072483	N/A

EP 1143731A1	Div ex	1998EP-0921699	June 2, 1998
EP 1143731A1	N/A	2001EP-0202162	June 2, 1998
EP 1143731A1	Div ex	EP 986901	N/A
JP2002507344W	N/A	1998WO-IB00895	June 2, 1998
JP2002507344W	N/A	1999JP-0501964	June 2, 1998
JP2002507344W	Based on	WO 9856188	N/A
US 6397387B1	N/A	1997US-0867266	June 2, 1997
US 6411307B1	Cont of	1997US-0867279	June 2, 1997
US 6411307B1	N/A	2000US-0498191	February 4, 2000
US 6411307B1	Cont of	US 6028600	N/A
EP 986901B1	N/A	1998EP-0921699	June 2, 1998
EP 986901B1	N/A	1998WO-IB00895	June 2, 1998
EP 986901B1	Related to	2001EP-0202162	June 2, 1998
EP 986901B1	Related to	EP 1143731	N/A
EP 986901B1	Based on	WO 9856188	N/A
DE 69808080E	N/A	1998DE-0608080	June 2, 1998
DE 69808080E	N/A	1998EP-0921699	June 2, 1998
DE 69808080E	N/A	1998WO-IB00895	June 2, 1998
DE 69808080E	Based on	EP 986901	N/A
DE 69808080E	Based on	WO 9856188	N/A

INT-CL (IPC): G06F003/14, G06F007/00, G06F013/00, G06F015/62, H04N005/00, H04N005/445, H04N005/907, H04N007/00, H04N007/01, H04N007/10, H04N007/14, H04N007/173

RELATED-ACC-NO: 2002-607583

ABSTRACTED-PUB-NO: EP 986901B

#### BASIC-ABSTRACT:

A client includes a set-top box (12) connected to or integrated into a TV set (14) and the box provides connections to video and computer data sources, which are processed and displayed on the TV, i.e. a cathode ray tube. liquid crystal display or other video image generator. The client is preferably connected to a server (16) by a telephone modem (18) and includes a multimedia processor (20) for controlling of multimedia tasks and contains a storage medium (22) and a remote control device (24).

The remote control is equipped with numeric keys, channel up and down buttons for selection of channels, a cursor or menu selector for controlling movement on the TV screen, an activation button of a link or commands and dedicated

buttons for jumping to a home page or other specialised functions. Text may be input using the remote control or a keyboard. The video connections includes cable (17) and digital broadcasting satellite (19) delivering traditional TV programmes and Internet content. The server functions as the client's access to the Internet, allowing requesting of documents, files and other information from other servers. providing pages with links or shortcuts to Internet content and to web pages already screened by the server and classified into categories within storage templates.

USE - Presentation of multimedia information in Internet on-demand system for TV

ADVANTAGE - Determination of most efficient delivery of data according to available data stream connections of client

ABSTRACTED-PUB-NO: US 6028600A

EQUIVALENT-ABSTRACTS:

A client includes a set-top box (12) connected to or integrated into a TV set (14) and the box provides connections to video and computer data sources, which are processed and displayed on the TV, i.e. a cathode ray tube. liquid crystal display or other video image generator. The client is preferably connected to a server (16) by a telephone modem (18) and includes a multimedia processor (20) for controlling of multimedia tasks and contains a storage medium (22) and a remote control device (24).

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US 6072483A

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US 6195692B

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US 6260192B

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US 6295057B

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US 6397387B

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US 6411307B



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WO 9856188A

CHOSEN-DRAWING: Dwg.1/12

TITLE-TERMS: DISPLAY CONTENT TELEVISION PROGRAM CLIENT  
AVAILABLE DATA STREAM  
CONNECT DETERMINE EFFICIENCY DELIVER TYPE DATA  
THROUGH AVAILABLE  
CONNECT

DERWENT-CLASS: T01 W01 W03

EPI-CODES: T01-H07C5E; W01-A06B7; W03-A02C5A; W03-A13B;  
W03-A16C5E;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1999-033723